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DIALOG(R) File 351: Derwent WPI

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## 007254693

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Prodn. of hybrid protein comprising mature human serum albumin - having trypsin cleavable hydrophilic extension, by growing E. coli cells

transformed with new inducible plasmid

Patent Assignee: GENETICA (GENE-N)

Inventor: LATTA M; MAYAUX J F; SARMIENTOS P; MAYAUX J
Number of Countries: 013 Number of Patents: 007

Patent Family:

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Patent No		Kind	Date	Applicat No		Kind	Date	Week	
ΕP	236210	A	19870909	ΕP	87400355	A	19870219	198736	В
FR	2594846	A	19870828	FR	862379	Α	19860221	198745	
JΡ	62275695	A	19871130	JP	8737683	A	19870220	198802	
ΕP	236210	В	19911023					199143	
DÈ	3773963	G ,	19911128					199149	
US	5100784	Α	19920331	US	8716651	Α	19870219	199216	
US	5187261	Α	19930216	US	8716651	A	19870219	199309	
				US	91653195	A	19910208		

Priority Applications (No Type Date): FR 862379 A 19860221 Cited Patents: EP 138437; EP 200590; 1.Jnl.Ref; EP 114506; EP 1929; EP 73646

Patent Details:

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Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

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## Abstract (Basic): EP 236210 A

Prodn. of hybrid protein (A), contg. a hydrophilic, N-terminal peptide extension terminated by a trypsin cleavage site, fused to the mature human serum albumin (HSA) sequence, comprises cultivating a strain of E. coli able to retain a plasmid which contains the nucleotide sequence coding for (A), the expression of which is controlled by an inducible bacterial promoter. Also new are (1) the plasmids pXL462; pXL641; pXL740 and pXL741 and (2) hybrid proteins expressed by these plasmids.

pXL462 contains the PL promoter; the ribosome-binding site (RBS) of the gene cII of lambda phage (lacking the tR1 transcription termination site); ATG start codon and the first 6 codons of the cII gene. It produces an (A) having the N-terminal extension of formula (Met)-Val-Arg-Ala-Asr-Lys-Arg. pXL641 contains the Ptrp promoter followed by penicillin amidase (PA) promoter; the RBS of PA and the first 6 codons of the PA gene. It produces an (A) with N-terminal extension of formula Met-Lys-Asn-Arg-Asn-Arg. pXL740 and pXL741 are similar to pXL641 but the extension is modified by directed mutagenesis to Met-Lys-Asn-Arg-Lys-Arg or Met-Lys-Arg-Lys-Arg. The (A) formed is converted to denatured, insoluble form, then renatured and solubilised

to rearrange the sec. and tert. structures of the polypeptide chain. (A) is treated with trypain to give a protein having a primary structure identical to HSA.

USE/ADVANTAGE - (A) can be converted into mature HSA. 0/11

Title Terms: PRODUCE; HYBRID; PROTEIN; COMPRISE; MATURE; HUMAN; SERUM; ALBUMIN; TRYPSIN; CLEAVE; HYDROPHILIC; EXTEND; GROW; COLI; CELL; TRANSFORM; NEW; INDUCE; PLASMID

Derwent Class: B04; D16

International Patent Class (Main): C07K-015/02

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C12P-021/02; C12R-001/19

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